LIP Habitat Management Practices Rates

Based on NRCS WHIP Rates for 2012

*Unit cost equates to 100% of the cost for conducting habitat management based on state averages for Massachusetts

Restoration and Management of Declining Habitats	Unit Cost*	Unit
Scattered Tree Cutting The creation or maintenance of shrubland for wildlife by selectively cutting out all tall growing tree species from a regenerating shrubland.	300.00	ac
Silvicultural Cut Silvicultural cut to remove the overstory and stimulate regeneration of desired shade intolerant and intermediate shade tolerant plant species while removing undesirable growing stock as prescribed in a forest management plan. This prescription involves removal of nearly all the trees in the stand.	795.98	ac
Stand Thinning - Chemical Undesirable seedling and sapling sized growing stock will be culled using various herbicide application methods including, but not limited to, foliar spray (back pack sprayer), basal bark, stem injection, or hack and squirt techniques.	241.54	ac
Woody Clearing - No Timber The creation of declining early successional habitat (typically shrubland/young forest) through the removal of the overstory canopy to create light conditions which will allow for regeneration of desired plant species/structure. Cost share is for cutting at least 350 stems/acre and treating slash. The stems to be cut are a mix of sizes but all the stems (including those >8-10" DBH) have no commercial timber value as cordwood, pulpwood, etc.	2,300.00	ac
Wetland Wildlife Habitat Management	**Unit Cost***	**Unit**
Create Turtle Nesting Habitat Creation of turtle nesting habitat, typically through a combination for the following activities: clearing vegetation, stripping loam, scarifying the soil surface, importing washed sandy/gravel soils. Cost includes all labor, equipment and materials.	2,100.00	ac
Early Successional Habitat Development/Management	**Unit Cost***	**Unit**
Herbaceous Management Manage an existing stand of grasses/forbs to provide wildlife habitat in the proper amounts and times. Cost is based on mowing after the nesting season (or late fall if stand is for pollinators) or performing strip disking to encourage annual plants that provide a seed source.	104.48	ac
Liming Apply lime at no more than 1 ton/acre per application to improve an existing stand of cool season grasses/forbs for wildlife habitat. Cost is based on purchase and application of lime based on soil test recommendations.	125.00	ac
Hedgerow Cutting The cutting and chipping of all tall growing woody vegetation within a hedgerow.	4,635.00	ac
Upland Wildlife Habitat Management	**Unit Cost***	**Unit**
Mowing - Light Brush Hog Grass dominated fields will be mowed in a manner that will improve habitat for wildlife (i.e., delayed mowing until after the nesting season, and/or altering the pattern of mowing). Typical equipment is mower but could also be a brush hog.	99.08	ac
Apple Tree Release Apple trees are being overtopped by trees competing for growing space and nutrients. Remove all trees above and focus on removal of trees to the East, South and West (for sun exposure).	19.58	ea
Snag Creation Snags are created by double-girdling the selected trees in the forest stand. Cost includes forester marking snag trees and labor to girdle the trees.	18.19	ea
Brush Piles Brush piles will be created from trees on site and will be constructed by piling brush and loose branches on top of a base frame comprised of large logs.	116.41	ea

Brush Management	Unit Cost*	Unit
Mechanical - Chemical Eradication of woody species by mowing with a brush hog or rotary mower, followed by a chemical treatment to control resprouting. Cost includes all labor, equipment, and materials for 2 separate treatments.	727.48	ac
Moderate Chemical Control Eradication of woody species through chemical treatment by backpack foliar sprayer, cut stump treatments, or basal bark application. Cost includes all labor, equipment, and materials for 2 separate treatments.	442.89	ac
Difficult Chemical Control Eradication of woody species through chemical treatment by backpack foliar sprayer, cut stump treatments, or basal bark application. Site has very poor access, or invasive cover ≥75%. Cost includes all labor, equipment, and materials for 2 separate treatments.	729.14	ac
Obstruction Removal	**Unit Cost***	**Unit**
Stump Removal Removal of stumps in order to improve turtle nesting habitat or ease future maintenance. Cost includes all labor, equipment and materials needed to remove stumps (typically by grinding).	1,588.00	ac
Herbaceous Weed Control	**Unit Cost***	**Unit**
Invasives Control - Mechanical/Chemical Treatment of herbaceous, invasive plants using herbicide, flame, or by pulling of plants. Cost includes all labor, equipment, and materials for 2 separate treatments.	400.00	ac
Purple Loosestrife Control-Biological Cost entails the release of a minimum of 10,000 Galerucella beetles per acre of infestation. Cost includes all labor and materials for 2 treatments.	3,000.00	ac
Phragmites Control Treatment of phragmites using chemical and/or mechanical methods. Cost includes all labor and materials for 2 separate treatments.	6,000.00	ac
Conservation Cover	**Unit Cost***	**Unit**
Establish Cool Season Grasses A field seeded to cool season grasses to benefit wildlife. Cost includes seed bed preparation, soil amendments and application, seed and seeding cost, and post planting weed control.	778.85	ac
Establish Warm Season Grasses A field seeded to warm season grasses to benefit wildlife. Cost includes seed bed preparation, soil amendments and application, seed and seeding cost, and post planting weed control.	905.00	ac
Pollinator Habitat Minimum 1/2 acre plot is planted to 9 flowering forbs to attract and support native pollinators. Cost includes seed bed preparation, soil amendments and application, seed and seeding cost, and post planting weed control.	2,228.58	ac
Prescribed Burning	**Unit Cost***	**Unit**
Prescribed Burn Conducting a prescribed burn on a field dominated by herbaceous and/or shrubby vegetation.	461.44	ac

Fence	Unit Cost*	Unit
Wooden Board Fence Installation of a 3 board fence to exclude livestock from resource concern. Cost assumes CCA treated posts installed 36" into ground and 8' o.c., heavy duty gates, and includes all material and labor.	7.49	lf
Wire Fence Installation of a high tensile, barbed wire, or electric fence (typically 3 strand) to exclude livestock from resource concern. Cost assumes posts installed minimum of 3' deep and 30' o.c., eight corner bracings, heavy duty gates, and includes all material and labor.	2.22	lf
Woven Wire Fence Installation of a woven wire fence to exclude livestock from resource concern. Cost assumes 4ft high woven wire with single strand barbed wire on top, posts installed minimum of 3' deep and 10' o.c., four corner bracings, heavy duty gates, and includes all material and labor.	5.08	lf
Streambank and Shoreline Protection	**Unit Cost***	**Unit**
Bioengineering with Rock Toe Installation of streambank protection using a riprap toe with live stakes and or other bioengineering techniques on the slope above the rock. Cost includes excavation, geotextile, riprap, wattles, live stakes, seeding, erosion control and all labor and equipment.	158.74	lf
Wetland Restoration	**Unit Cost***	**Unit**
Box Culvert Replacement Remove undersized culvert and replace with larger box culvert. Cost includes mobilization, traffic control, de-watering, structure removal and disposal, culvert replacement, bedding and backfill and site stabilization.	2,520.00	lf
Box Culvert Replacement - Substantial Partnering Remove undersized culvert and replace with larger box culvert. Cost includes mobilization, traffic control, de-watering, structure removal and disposal, culvert replacement, bedding and backfill and site stabilization. Partners are providing substantial construction funds.	2,520.00	lf
Culvert Removal - Channel Reshaping Remove undersized culvert and reshape and stabilize channel. Cost includes mobilization, traffic control, de-watering, structure removal and disposal, channel shaping and site stabilization.	29,600	ea